

BIBLIOGRAPHY

C. FITZHUGH TALMAN, in Charge of Library

RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Alippi, Tito.

Come è organizzato e come funziona l'Ufficio presagi. Roma. 1927. 4 p. 34 cm.

Atwood, R. E., comp.

Stories and pictures of the Vermont flood, November, 1927. [Burlington. c1927.] 32 p. illus. 27 cm.

Austin, L. W.

Long-wave radio measurements at the Bureau of Standards in 1926, with some comparisons of solar activity and radio phenomena. p. 825-836. figs. 23 cm. (Repr.: Proc. Inst. radio eng., Oct., 1927.)

Bates, D. C.

Climate of New Zealand. Wellington. 1927. 16 p. figs. 24½ cm. (Extr.: New Zealand official year-book, 1928.)

Bureau, Robert.

Les atmosphériques. Paris. n.d. p. 301-346. figs. 24 cm. (L'Onde électrique 5^e année. N° 55. Juil., 1926.)

Recherches sur la structure électromagnétique des discontinuités de l'atmosphère. 16 p. figs. 27½ cm. (Extr.: La Mété., T. 3, nouv. sér., juil. 1927.)

Bureau, Robert, & Coyecque, M.

Les croisières radiométéorologiques du "Jacques-Cartier." Paris. 1926. 92 p. plates (fold.) 31½ cm. (Aeron. et trans. aériens. no. 17, Mém. de l'Off. nat. de France.)

Chu, Coching.

Preliminary study on the weather types of Eastern China. 6 p. plates. 28 cm.

Cooper, F. L.

Windmill electric generators. unp. plates. 23 cm. (Col. agric. coll. Exten. serv., circ. no. 10, March 1926.)

Cortés, Victoria Zárate.

Elementos genéticos del clima de Lima breves notas a cerca de algunos de los mas importantes. Lima. 1926. v. p. diagrs. 33½ cm. (Trab. presentado a la Soc. nac. agraria.)

Díaz, Severo.

Nueva meteorología. pt. 1. Hechos fundamentales. Guadalajara. 1927. 48 p. illus. 28 cm.

Dorno, C.

Grundzüge des Klimas von Muottas-Muraigl (Oberengadin).

Eine meteorologisch-physikalisch-physiologische Studie. Braunschweig. 1927. x, 177 p. illus. table (fold.) 22½ cm.

Physikalische Grundlagen der Sonnen- und Lichttherapie. 15 p. figs. 22½ cm. (Sonderdr.: Medizinischen Welt, 1. Jahrg. Nr. 35 vom 1. Oktober 1927.)

Physiologische Wirkungen der Luftelektrizität. 8 p. 24½ cm. (Sonderab.: Zeitschr. für wissensch. Bäderkunde. 1927. H. 2.)

Eredia, F.

Il nuovo meteorografo dell' Ufficio presagi. Pisa. 1927. 6 p. illus. 23½ cm. (Estr.: L'Aerotecnica, Giorn. ed atti dell'Ass. ital. di aerotec. Anno 6, N. 9, 1927.)

Sui dispositivi e sui sistemi adottati nei lanci di palloni sonda. Pisa. 1927. 8 p. figs. 23½ cm. (Estr.: L'Aerotecnica, Giorn. ed atti dell'Ass. ital. di aerotec., Anno 6, N. 9, 1927.)

France. Office national météorologique.

Atlas des postes et stations. Paris. n.d. unp. figs. 23½ cm.

Hakonson-Hansen, M[artin] K[ristian].

Trondhjemsvær, resultater av de meteorologiske observasjoner i Trondhjem i tiåret 1916-1925. Trondhjem. 1927. 53 p. 24 cm.

[Hamburg.] Deutsche Seewarte.

Wetterkunde und Wetterkarte. Anleitung zum Gebrauch der Wetterkarte und zu Wetterbeobachtungen nebst Anhang einer Wolkenkarte in Mehrfarbendruck. Hamburg. n.d. 36 p. figs. plates. 22½ cm.

Horner, Donald W.

Weather observations and aids to forecasting. London. [1927.] 64 p. illus. front. 19 cm.

Japan. Imperial marine observatory.

Mean atmospheric pressure, cloudiness and sea surface temperature of the North Pacific ocean and the neighbouring seas for the year, 1926. Kobe. 1927. 122 p. plates. 26½ cm.

Kousnetzov, B.

Atlas des nuages. Éd. 2. Leningrad. 1926. 26, 24 p. plates. 13 cm. (Obs. géophys. cent.) [Author, title and text in French and Russian.]

Marshall, Robert.

Influence of precipitation cycles on forestry. p. 415-429. figs. 23 cm. (Repr.: Journ. of forestry, v. 25, no. 4, Apr., 1927.)

Mexico. Servicio meteorológico.

La temperatura en la ciudad de Mexico, D. F. durante 50 años de 1877 a 1926. Tacubaya. 1927. 46 p. plates. 28 cm.

Mörikofer, Walter.

Der tägliche Gang der Bewölkung zu Basel. Basel. 1927. p. 427-453. figs. 23 cm. (Separatabl.: Verhandl. der naturf. Gesellsch. in Basel. Bd. 38.)

Palmén, E.

Über die Bewegung der aussertropischen Zyklonen. Helsingfors. 1926. 102 p. figs. plates (fold.) 24 cm. (Soc. scient. Fennica. Comm. phys.-math. III. 7.)

Vanderlinde, Emile.

Sur la distribution de la pluie en Belgique. Bruxelles. 1927. 50 p. figs. plates. 32 cm. (Inst. roy. mét. de Belgique. Mém. v. 2.)

Wada, Koroku, & Nisikawa, Syōdirō.

Measurement of variable velocity relative to air with Pitot-static tube. [Tōkyō. 1927.] p. 327-396. figs. plate (fold.) 26 cm. (Rep. Aeron. res. inst., Tōkyō imp. univ., no. 27. Nov. 1927. (v. 2, 13.))

RECENT PAPERS BEARING ON METEOROLOGY

The following titles have been selected from the contents of the periodicals and serials recently received in the library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Akademie der Wissenschaften. Sitzungsberichte. Wien. Abt. IIa. Band 136, Heft 3 u. 4. 1927.

Benndorf, Hans. Grundzüge einer Theorie des elektrischen Feldes der Erde. II. p. 175-194.

American meteorological society. Bulletin. Worcester, Mass. v. 8. 1927.

Clayton, H. Helm. A method of verifying weather forecasts. p. 144-146. (Oct.)

Clayton, H. Helm. The weather of 1927 as related to solar changes. p. 152-153. (Oct.) [Abstract.]

Loveland, George A. Definite short range weather forecasting. p. 153-156. (Oct.) [Abstract.]

McEwen, George F. Indications of the (1927 to 28) seasonal rainfall in southern California. p. 157-158. (Oct.)

Boerema, J. Rainfall types in the Netherlands East-Indies. p. 167-168. (Nov.) [Abstract.]

Chu, Coching. A preliminary study of the weather types of eastern China. p. 164-167. (Nov.)

Cressy, George B. The climate of the glacial period in eastern Asia. A statement of the problem. p. 170. (Nov.) [Abstract.]

Huntington, Ellsworth. The weather and human progress. p. 159-164. (Nov.) [Abstract.]

Lowdermilk, Walter C. Factors influencing surface run-off of rainfall. p. 169-170. (Nov.) [Abstract.]

Another meteorological caterpillar. p. 183-184. (Dec.)

Talman, C. Fitzhugh. A caterpillar weather prophet (?). p. 182-183. (Dec.)

Talman, C. Fitzhugh. Preparing for snow removal. p. 181-182. (Dec.)

Typhoid fever and rainfall. p. 184-186. (Dec.)

Weather observations for auto testing. p. 178-179. (Dec.)

Annalen der Hydrographie und maritimen Meteorologie. Berlin. 55. Jahrgang. 1927.

Groissmayr, Fritz. Spezialklimatologische Untersuchung der Winterniederschläge Westislands. p. 291-293. (September.)

Markgraf, H. Zur Frage der Blitzgefährdung von Flugzeugen. p. 281-286. (September.)

- Annalen der Hydrographie und maritimen Meteorologie*—Contd.
- Perlewitz, P. Ist das Fliegen heute unabhängig vom Wetter? Welche Rolle spielt der Wind beim Fliegen? p. 286–290. (September.)
- Grosse, W. Statistische Berechnungen der Winde für Bremen. p. 321–323. (Oktober.)
- Perlewitz, P. Zur Regenverteilung auf dem Atlantischen Ozean. p. 331–332. (Oktober.) [With rainfall chart for July.]
- Perlewitz, P., & Ahlgrimm, [Fr.] Wissenschaftliche Freiballonfahrt mit Funkbild-Übertragungsversuchen. p. 316–321. (Oktober.)
- Astronomical society of the Pacific. Publications. San Francisco.* v. 39. December, 1927.
- Johnson, James Halvor. On the altitude of the aurora. p. 347–350.
- Beiträge zur Geophysik. Leipzig.* 18. Band, 3. Heft. 1927.
- Baur, Franz. Zusammenhänge des Witterungscharakters des März in Deutschland mit der gleichzeitigen und der vorausgegangenen Luftdruckverteilung. p. 225–246.
- Götz, F. W. Paul. Strahlungsmessungen in Montana (Wallis) durch Prof. A. Gockel. p. 262–265.
- Pollak, Leo Wenzel. Verallgemeinerte Isobaren. p. 292–312.
- Electrical world. New York.* v. 90. August 27, 1927.
- Peek, F. W., jr. Protection from lightning. II. p. 408–412.
- Engineering news-record. New York.* v. 99. 1927.
- General Jadwin reports on flood protection system for Mississippi River. p. 961–966. (Dec. 15.) [Abst. in this review.]
- Stuhrman, E. A. Repair of hurricane damage to two Miami buildings. p. 1050–1053. (Dec. 29.)
- France. Académie des sciences. Comptes rendus. Paris.* t. 185. 1927.
- Devaux. Sur la mesure de la densité des champs de neige et des glaciers. p. 1147–1149. (21 novembre.)
- Lavauden, L. Quelques effets de la sécheresse sur les vertébrés supérieurs de l'Afrique du Nord. p. 1210–1212. (28 novembre.)
- Hobbs, William Herbert. Les expéditions au Groenland de l'Université de Michigan. p. 1294–1296. (5 décembre.)
- Devaux, Joseph. Sur la formation des glaciers par fusion diurne et regel nocturne des névés. p. 1602–1604. (27 décembre.)
- Hemel en dampkring. Den Haag.* 25 jaargang. December 1927.
- Albada, L. E. W. van. Stereoscopische wolkenopnamen. p. 372–379.
- Időjárás. Budapest.* v. 31. Szeptember-október 1927.
- Hille, A. Meteorologische Beobachtungen während des Fluges. p. 158. [Abstract.]
- Imperial academy. Proceedings. Tokyo.* v. 3. October, 1927.
- Kaburaki, Tokuni. Notes on the protective value of wind-breaks. p. 561–563.
- Marine observer. London.* v. 5. January, 1928.
- Smith, H. T. The extraction and compilation of marine meteorological data by mechanical methods. p. 10–14.
- Meteorologia pratica. Montecassino.* Anno 8. Maggio-giugno 1927.
- Bilancini, Raoul. Contributo allo studio della influenza della radiazione sul clima. p. 110–112.
- Meteorologia pratica*—Continued.
- Bilancini, Raoul. Contributo allo studio della variazione del clima. p. 108–109.
- Crestani, Giuseppe. Le trombe in Italia nel 1926. p. 113–114.
- Crestani, G., & Paoloni, B. Ciò che insegnano i recenti voli transatlantici. Di navi aeroporti. Stazioni radiometeorologiche su gli oceani. p. 115–131.
- Majo, Ester. Composti azotati disciolti nella pioggia a Portici. p. 105–107.
- Martinozzi, Leonardo. Le stagioni piovose delle Isole Britanniche. p. 132–134.
- Norske videnskaps-akademi. Geofysiske publikasjoner. Oslo.* v. 4, no. 3. 1927.
- Gaarder, Torbjörn. Die Sauerstoffverhältnisse im östlichen Teil des Nord-Atlantischen Ozeans.
- Port-au-Prince. Observatoire météorologique. Séminaire-Collège St.-Martial. Bulletin annuel. Port-au-Prince.* 1925.
- Baltenweck, R. Le P. Ignace Scherer. p. iii–vi. [Obituary. With portrait.]
- Reale accademia dei lincei. Atti. Roma. Rendiconti.* v. (8) 6. 1927.
- Burruzz, M. Andamenti periodici della temperatura media diurna a Modena. p. 46–49. [Fasc. 1–2.]
- Eredia, F. La direzione risultante dei venti alle varie altezze desunta dalle osservazioni di paoloni piloti eseguite a Vigna di Valle (Bracciano). p. 49–53. (Fasc. 1–2.)
- Ruda, F. Sulla spiegazione del raggio verde. p. 152–165. (Fasc. 5–6.) p. 228–230. (Fasc. 7–8.)
- Revue de géographie alpine. Grenoble.* t. 15. 1927. fascicule 2.
- Gex, F. Le climat de 1926 en Savoie. p. 317–335.
- Royal meteorological society. Quarterly journal. London.* v. 53 October, 1927.
- Ångström, Anders. On the unit of radiation in meteorological treatises on actinometry. p. 448–449.
- Bower, S. Morris. Report on winter thunderstorms in the British Islands from January 1st to March 31st, 1926. p. 421–438.
- Chree, C. The effect of pressure on the readings of thermometers. p. 438.
- Jeffreys, Harold. Cyclones and the general circulation. p. 401–406.
- Meyer, George M. Early water-mills in relation to changes in the rainfall of East Kent. p. 407–419.
- The range of atmospherics. A report from the Committee on the relation between atmospherics and weather. p. 327–400.
- Treloar, H. M. The variation of eddy viscosity with wind velocity and season. p. 439–445.
- A waterspout off the Needles. p. 420.
- Watson, R. A. Nephoscope observations at Mauritius. p. 446–448.
- Sociedad científica "Antonio Alzate." *Memorias y revista.* México. Tomo 47. 1927. Núms. 1–4.
- Gallo, Joaquín. Las manchas solares y las lluvias en la ciudad de México. p. 55–58.
- Zeitschrift für Physik. Berlin.* 42. Band. 1. Heft. 1927.
- Cario, Günther. Die Wellenlänge der grünen Nordlichtlinie. p. 15–21.

SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING DECEMBER, 1927

By HERBERT H. KIMBALL, Solar Radiation Investigations

For a description of instruments and exposures and an account of the method of obtaining and reducing the measurements, the reader is referred to the REVIEW for January, 1924, 52:42, January, 1925, 53:29, and July, 1925, 53:318.

Table 1 shows that solar radiation intensities were above the normal values for December at all three stations except during afternoons at Madison, Wis., and Lincoln, Nebr.

Table 2 shows a slight excess in the total solar radiation received on a horizontal surface directly from the sun and diffusely from the sky, at all three stations for which normals have been determined, as compared with the December normals for these stations.

Skylight polarization measurements at Washington made on six days give a mean of 52 per cent, with a maximum of 57 per cent on the 5th. These are considerably below the corresponding normal values for Washington for December. At Madison the ground was covered with snow during most of the month and in consequence no skylight polarization measurements were made.